

7-13-07

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Express Mail Label No. EM 086871259 US Dated: July 12, 2007

Docket No.: 2001377.123-US1  
(PATENT)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Gregor CEVC Confirmation No.: 2670  
Application No.: 09/284,683 Art Unit: 1615  
Filed: June 24, 1999 Examiner: G. S. Kishore  
Title: PREPARATION FOR THE TRANSPORT OF AN ACTIVE  
SUBSTANCE ACROSS BARRIERS

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (IDS)**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97, and 1.98, the Examiner's attention is invited to the attached Form PTO/SB/08, listing references AW1-AZ1, AA2-AZ2, AA3, BS-BZ, BA1-BF1, CK-CZ, CA1-CZ1 and CA2-CI2 and to the attached copy of references BS-BZ, BA1-BF1, CK-CZ, CA1-CZ1 and CA2-CI2. It is respectfully requested that the Examiner review the listed references and make them of record by initialing and returning a copy of the enclosed Form PTO/SB/08 with the next Patent Office communication.

This Supplemental Information Disclosure Statement is being filed after the mailing date of the first Office Action on the merits and before the mailing date of a final Office Action or a Notice of Allowance.

07/13/2007 TRBUYER2 00000040 080219 09284683

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Application No.: 09/284,683

Docket No.: 2001377.00123US1

Please charge the required fee, estimated to be \$180.00, to our Deposit Account No. 08-0219.

Dated: July 12, 2007

Respectfully submitted,

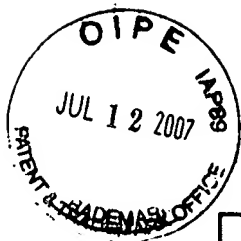
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Used in Lieu of PTO/SB/08A/B  
(Based on PTO 04-07 version)

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/284,683-Conf. #2670
				Filing Date	June 24, 1999
				First Named Inventor	Gregor CEVC
				Art Unit	1615
				Examiner Name	G. S. Kishore
Sheet	1	of	4	Attorney Docket Number	2001377.00123US1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AW1*	US-2001/0012849	08-09-2001	Wechter	
	AX1*	US-2002/0003179	01-10-2002	Verhoff et al.	
	AY1*	US-2002/0012680	01-31-2002	Patel et al.	
	AZ1*	US-2002/0037877	03-28-2002	Singh	
	AA2*	US-2002/0048596	04-25-2002	CEVC	
	AB2*	US-2002/0106345	08-08-2002	Uhrich et al.	
	AC2	US-2002/0119188	08-29-2002	Niemiec et al.	
	AD2*	US-2002/0147238	10-10-2002	Jerussi et al.	
	AE2*	US-20040071767-A1	04-15-2004	Cevc et al.	
	AF2*	US-20070031483	02-08-2007	Cevc	
	AG2*	US-20070042030-A1	02-22-2007	Cevc	
	AH2*	US-4,369,182	01-18-1983	Ghyczy et al.	
	AI2*	US-4,849,224	07-18-1989	Chang et al.	
	AJ2*	US-4,937,182	06-26-1990	Hancock et al.	
	AK2*	US-4,937,254	06-26-1990	Sheffield et al.	
	AL2*	US-4,983,395	01-08-1991	Chang et al.	
	AM2*	US-5,202,125	04-13-1993	Ebert et al.	
	AN2*	US-5,209,720	05-11-1993	Unger	
	AO2*	US-5,244,678	09-14-1993	Legros et al.	
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	AR2*	US-5,614,178	03-25-1997	Bloom et al.	
	AS2*	US-5,681,849	10-08-1997	Richter et al.	
	AT2*	US-5,783,208	07-21-1998	Venkateshwaran et al.	
	AU2*	US-5,874,095	02-23-1999	Deckner et al.	
	AV2*	US-5,891,472	04-06-1999	Russell	
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	AX2*	US-6,577,880	06-10-2003	Ishida et al.	
	AY2*	US-6,797,276	09-28-2004	Glenn et al.	
	AZ2*	US-6,868,686-A1	03-22-2005	Ueda et al.	
	AA3*	US-RE 33273		Speaker	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	BS	JP-2006131597 (English Language Abstract)	05-02-2006	Hisamitsu Pharmaceut CO inc		
	BT	WO-90/09385	08-23-1990	The Liposome Company Inc		
	BU	WO-90/11065	10-04-1990	Theratech, Inc.		
	BV	WO-91/01146	02-07-1991	Praxis Biolog Inc		
	BW	WO-92/04009	03-19-1992	Univ London Pharmacy		
	BX	WO-96/19205	06-27-1996	Theratech, Inc.		
	BY	WO-98/24407 (English Language Abstract)	06-11-1998	L'Oreal		

Examiner Signature		Date Considered	
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				First Named Inventor	Gregor CEVC
				Art Unit	1615
				Examiner Name	G. S. Kishore
Sheet	2	of	4	Attorney Docket Number	2001377.00123US1

BZ	WO-00/44349	08-03-2000	IDEA AG		
BA1	WO-01/000247	01-04-2001	The Liposome Company, Inc		
BB1	WO-02/32398	04-25-2002	KOHANE, et al		
BC1	WO-02/058670	08-01-2002	CHASIN, et al		
BD1	WO-04/032900	04-22-2004	IDEA AG		
BE1	WO-05/063213	07-14-2005	Biodelivery Sciences International, Inc		
BF1	WO-06/050926	05-18-2006	IDEA AG		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an single asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
	CK	Almeida et al., "Nasal delivery of vaccines," Journal of Drug Targeting, Vol 3, No 6, pp. 455-67 (1996)		
	CL	Byas-Smith et al., "Transdermal clonidine compared to placebo in painful diabetic neuropathy using two stage 'enriched enrollment' design," Pain, Vol 60, pp. 267-274 (1995)		
	CM	Castillo et al., "Glucocorticoids Prolong Rat Sciatic Nerve Blockade In Vivo from Bupivacaine Microspheres," Anesthesiology, Vol 85, No 5, pp. 1157-66 (1996)		
	CN	Cevc et al., "Phospholipids handbook", Marcel Dekker, Inc., New York, Basel, Hong Kong, pp. 375-376 and 404 (1993)		
	CO	Claims filed February 4, 2003, in connection with U.S. Patent Application No. 10/357,617 (U.S. Patent Publication No. US 2004/0071767 A1), under examination by Examiner Kishore of the USPTO.		
	CP	Claims filed October 20, 2006, in connection with U.S. Patent Application No. 10/357,617 (U.S. Patent Publication No. US 2004/0071767 A1), under examination by Examiner Kishore of the USPTO.		
	CQ	Claims filed January 22, 2007, in connection with U.S. Patent Application No 10/037,480 (U.S. Patent Publication No. US 2003/0099694 A1), under examination by Examiner Fortuna of the USPTO		
	CR	Claims filed March 20, 2006, in connection with U.S. Patent Application No 10/037,480 (U.S. Patent publication No. US 2003/0099694 A1), under examination by Examiner Fortuna of the USPTO		
	CS	Claims filed September 21, 2005, in connection with U.S. Patent Application No. 10/037,480 (U.S. Patent Publication No. US 2003/0099694 A1), under examination by Examiner Fortuna of the USPTO		
	CT	Claims filed October 20, 2004, in connection with U.S. Patent Application No 10/037,480 (U.S. patent Publication No. US 2003/0099694 A1), under examination by Examiner Fortuna of the USPTO		
	CU	Claims filed January 4, 2002, in connection with U.S. Patent Application No 10/037,480 (U.S. Patent Publication No. US 2003/0099694 A1), under examination by Examiner Fortuna of the USPTO		
	CV	Claims filed February 26, 2007, in connection with U.S. Patent Application No. 10/984,450		
Examiner Signature			Date Considered	

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				First Named Inventor	Gregor CEVC
				Art Unit	1615
				Examiner Name	G. S. Kishore
Sheet	3	of	4	Attorney Docket Number	2001377.00123US1

		(U.S. Patent Publication No US 2005/0123897 a1), under examination by Examiner Fortuna of the USPTO	
	CW	Claims filed May 31, 2006, in connection with U.S. Patent Application No 10/984,450 (U.S. Patent Publication No US 2005/0123897 A1), Under examination by Examiner Fortuna of the USPTO	
	CX	Claims filed May 31, 2005, in connection with U.S. Patent Application No 10/984,450 (U.S. Patent Publication No US 2005/0123897 A1), under examination by Examiner Fortuna of the USPTO	
	CY	Claims filed May 12, 2004, in connection with U.S. Patent Application No. 10/357,618 (U.S. Patent Publication No. 2004/0105881 A1), under examination by Examiner Ghali of the USPTO	
	CZ	Claims presently pending in U.S. Patent Application No 09/890,335, under examination by Examiner Gangle of the USPTO	
	CA1	Claims presently pending in U.S. Patent Application No 09/890,371, under examination by Examiner Hissong of the USPTO	
	CB1	Copy of International Search Report for International Patent Application No. PCT/EP2005/011986. (July 4, 2006).	
	CC1	Definition of Microbicide, Wikipedia, The Free Online encyclopedia (2007)	
	CD1	Edwards, et al., Effects of Triton X-100 on Sonicated Lecithin Vesicles, Langmuir, Vol. 5, pages 472-475 (1989).	
	CE1	Frantzen et al., "Assessing the accuracy of routine Photon Correlation Spectroscopy Analysis of Heterogeneous Size Distributions," AAPS PharmSciTech, Vol 4, No 3, Article 36, pp. 1-9 (2003)	
	CF1	Glen et al, "Skin immunization made possible by cholera toxin 'letter!', Nature, GB, MacMillan Journal LTD., London, Vol 391, no 6670, pp. 851 (Feb 1998)	
	CG1	Golden et al., "Role of Stratum Corneum Lipid Fluidity Transdermal Drug Flux," on Journal of Pharmaceutical Sciences Vol. 76, No. 1, January 1987, American Pharmaceuticals Association, pp. 25-28.	
	CH1	Grahame R, "Transdermal non-steroidal anti-inflammatory agents," BJCP, Vol 49, No1, pp. 33-35 (Jan-Feb 1995)	
	CI1	Holzbach RT, "Detection of Vesicles in native and model Biles by Morphological and other structural Techniques: applications and limitations," Hepatology, Sep12 (3 Pt 2), pp. 106S-112S (1990)	
	CJ1	Ito, Yoshimasa et al. "Percutaneous Absorption of Acemetacin from a Membrane Controlled Transdermal System and Prediction of the Disposition of the Drug in Rats." Biol. Pharm. Bull., 16(6):583-588. (1993).	
	CK1	Lehmann, J. et al. "Analgesic and anti-inflammatory efficacy of IDEA-070 in UVB-induced sunburn." Journal of the European Academy of Dermatology and Venerology, 18(S2):167-168. (October 2004).	
	CL1	Merck Index: 10th Edition. pp. 779-780. (1983).	
	CM1	Office Action issued April 11, 2007, in connection with U.S. Patent Application No. 10/037,480 (U.S. Patent Publication No. US 2003/0099694 A1), under examination by Examiner Fortuna of the USPTO.	
	CN1	Office Action issued December 19, 2005, in connection with U.S. Patent Application No. 10/037,480 (U.S. Patent Publication No. US 2003/0099694 A1), under examiner by Examiner Fortuna of the USPTO	
	CO1	Office Action issued December 28, 2006, in connection with U.S. Patent Application No. 10/357,618 (U.S. Patent Publication No. 2004/0105881 A1) under examination by Examiner Ghali of the USPTO.	

Examiner Signature		Date Considered	
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Sheet	4	of	4	Attorney Docket Number	2001377.00123US1

	CP1	Office Action issued January 19, 2007, in connection with U.S. Patent Application No. 10/357,617 (U.S. Patent Publication No. US 2004/0071767 A1), under examination by Examiner Kishore of the USPTO.	
	CQ1	Office Action issued March 30, 2005, in connection with the U.S. Patent Application No. 10/037,480 (U.S. Patent Publication No. US 2003/0099694 A1), under examination by Examiner Fortuna of the USPTO	
	CR1	Office Action issued May 30, 2006, in connection with U.S. Patent Application No. 10/357,617 (U.S. Patent Publication No. US 2004/0071767 A1), under examination by Examiner Kishore of the USPTO.	
	CS1	Office Action issued on August 28, 2006, in connection with U.S. Patent Application No 10/984,450 (U.S. Patent Publication No US 2005/0123897 A1), under examination by the Examiner Fortuna of the USPTO	
	CT1	Office Action issued on February 7, 2006, in connection with U.S. Patent Application No 10/984,450 (U.S. Patent Publication No US 2005/0123897 A1), under examination by Examiner Fortuna of the USPTO	
	CU1	Office Action issued on May 16, 2007, in connection with U.S. Patent Application No 10/984,450 (U.S. Patent Publication No. US 2005/0123897 A1), under examination by Examiner Fortuna of the USPTO.	
	CV1	Office Action issued on October 16, 2003, in connection with U.S. Patent Application No 10/037,480 (U.S. Patent Publication No US 2003/0099694 A1), under examination by Examiner Fortuna of the USPTO	
	CW1	Office Action issued September 20, 2006, in connection with U.S. Patent Application No. 10/037,480 (U.S. Patent Publication No US 2003/0099694 A1), under examination by Examiner Fortuna of the USPTO	
	CX1	Ogiso, Taro et al. "Membrane-Controlled Transdermal Therapeutic System Containing Clonazepam and Anticonvulsant Activity after its Application." Chem. Pharm. Bull., 37(2):446-449. (1989).	
	CY1	Paul et al., "Non Invasive administration of protein antigens: transdermal immunization with bovine serum albumin in transfersomes," Vaccine Research, Vol 4, No 3, pp. 145-164 (1995)	
	CZ1	Paul et al., "Transdermal immunisation with an integral membrane component, gap junction protein, by means of ultradeformable drug carriers, transfersomes," Vaccine, Vol 16, No 2-3, pp. 188-195 (Jan 1998)	
	CA2	Price, "A Review of the Factors Influencing the Penetration of Pesticides through Plant Leaves," I.C.I. Ltd, Plant Protection Division, Jealott's Hill Research station, Bracknell, Berkshire RG12 6EY, UK, pgs. 237-252.	
	CB2	Product Information, "Polysorbate 80 VG" (2004)	
	CC2	Product Information, "Tween 80 Pure" (2004)	
	CD2	Ranade V., "Drug Delivery Systems.6. Transdermal Drug Delivery," J. Clin Pharmacol, Vol 31, pp. 401-418 (1991)	
	CE2	Swenson, E. Scott and William J. Curatolo. "Intestinal permeability enhancement for proteins, peptides and other polar drugs: mechanisms and potential toxicity." Advanced Drug Delivery Reviews, 8:39-92. (1992).	
	CF2	Trotta, M. et al. "Deformable liposomes for dermal administration of methotrexate." International Journal of Pharmaceutics, 270:119-125. (February 11, 2004).	
	CG2	Trotta, M. et al. "Elastic liposomes for skin delivery of dipotassium glycyrrhizinate." International Journal of Pharmaceutics, 241(2):319-327. (July 25, 2002).	
	CH2	Wess, L. "Down, down, deeper and down." Biocentury, The Bernstein Report on BioBusiness, 12(22):A11-A12. (May 17, 2004).	
	CI2	Yuan, et al., "Cationic Liposome and Gene Transfer," Progress in Physiological Science, 28(2), pp. 163-165, 1997.	
Examiner Signature			Date Considered